GE
Measurement & Control

ISOVOLT X-ray Tubehousing

ISOVOLT 320 M1 / 10-35

Application

Radioscopic and CT inspections of welds and castings.

Features

- Direct radiating tube with double focus, bipolar, oil-cooled anode, axial high voltage connections
- Metal-ceramic tube with oblique anode and Beryllium window
- Compatible with X-ray equipment of the ISOVOLT series
- Produced under ISO 9001 certified quality management system

Options

- Centering and collimator attachment with laser centering device
- Tube yokes

Technical Data

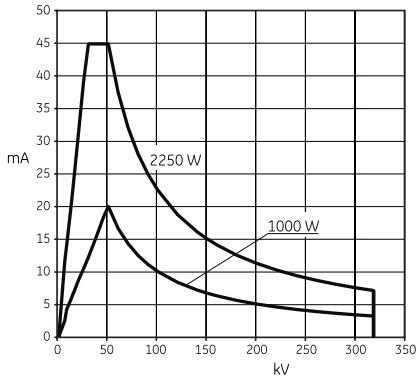
	Large focal spot	Small focal spot
Maximum tube voltage	320 kV	
Maximum anode dissipation	2250 W	1000 W
Tube current at max. tube voltage	7.0 mA	3.1 mA
Focal spot size (EN 12 543)	3.5 mm	1.0 mm
Emergent beam angle	30° x 40° asymmetric (see drawing)	
Inherent filtration	7 mm Be + 2 mm Al (removable)	
High voltage connection	2 Plug sockets for rubber cone plugs R24 with quick-lock cable flanges	
Cooling oil flow rate	min. 17 l/min	
Cooling oil temperature	max. 50° C (inlet)	
Cooling oil pressure	max. 8.5 bar	
Weight (with optional cable quick-lock)	41 kg (90.4 lbs)	
Dimensions	see drawing	

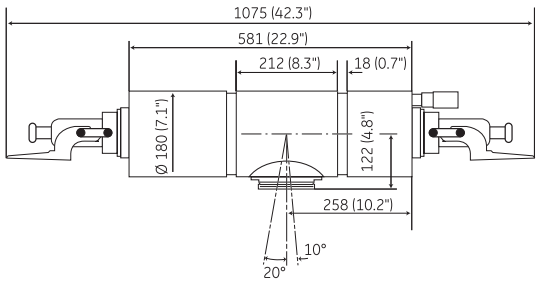
Dose Rate within the Central Beam

The generation of radiation in an X-ray tube solely depends on the operation values, not on the make.
The dose rate relevant in practice and suitable for calculations of radiation protection values is defined by national standards; thus the dose rate of the tubehousing ISOVOLT 320M1/10-35, measured at a distance of 1 m from the focal spot, amounts to 16.5 Sv/h at maximum tube voltage and maximum anode dissipation.

This value must not be used to assess biological effects.

The dose rate of the leakage radiation is < 10 mSv/h.





www.ge-mcs.com/x-ray

GEIT-30206EN (10/14)

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